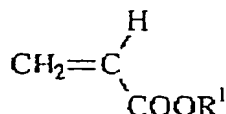


Patent Abstracts of Japan

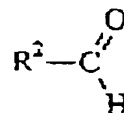
PUBLICATION NUMBER : 2000319228
 PUBLICATION DATE : 21-11-00



APPLICATION DATE : 10-05-99
 APPLICATION NUMBER : 11127928

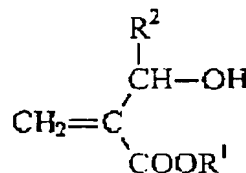
APPLICANT : NIPPON SHOKUBAI CO LTD;

INVENTOR : YAMAMOTO KANAE;



INT.CL. : C07C 67/31 B01J 31/02 C07C 69/732
 // C07B 61/00

TITLE : PREPARATION OF
 α -HYDROXYMETHYL ACRYLATE
 COMPOUND



ABSTRACT : PROBLEM TO BE SOLVED: To obtain the subject α -hydroxymethyl acrylate in high yield, effectively suppressing production of by-product by setting the amount of water of a reaction system in a specific range in a reaction of an acrylate compound and an aldehyde compound.

SOLUTION: The subject compound of formula III (e.g., methyl α -hydroxymethyl acrylate) is obtained by reacting a compound of formula I (R¹ is an organic residue) (e.g., methyl acrylate) and a compound of formula II (R² is H or an organic residue) (e.g., acetaldehyde) in the presence of a tertiary amine catalyst (e.g., triethylamine) and water. In the reaction the mole fraction of the three components, the acrylate compound, the tertiary amine and water is (25-50/15-40/5-45) as a character, and the preferable solubility of the acrylate to water is ≥ 0.1 at 20°C.

COPYRIGHT: (C)2000,JPO